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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,849	10/24/2001	Seppo Salminen	309-010322-US (PAR)	6896
2512	7590	08/04/2006		EXAMINER
PERMAN & GREEN				PHAM, TUAN
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FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 08/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/998,849	SALMINEN ET AL.
	Examiner TUAN A. PHAM	Art Unit 2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 July 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-11,13-16 and 19-32 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-2, 4-11, 13-16, and 19-32 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/21/2006 has been entered.

Response to Arguments

2. In response to applicant's remark on page 8, Applicant argues that the examiner has fails to combine Harris et al. with Barkat in claims 1, 9, 15, 21, 23, and 25.

In response to applicant's arguments as stated above, the Examiner respectfully disagrees with the Applicant's argument. It appears applicant is attacking individual merits of Harris and Barkat and concludes that there is no impetus to combine them. However, the 103 rejection is in consideration of Harris in view of Barkat as a whole. One cannot show non-obviousness by attacking references individually. In re Keller, 208 USPQ 871 (CCPA 1981). The test for obviousness is not whether features of one reference may be bodily incorporated into the other to produce claimed subject matter but simply what the combination of references makes obvious to one of ordinary skill in pertinent art. In re Bozek, (CCPA) 163 USPQ 545. The question in a rejection for obviousness on a combination of references is what secondary reference would teach one skilled in the art and not whether its structure could be bodily substituted in basic

reference structure. In re Richman, 165 USPQ 509 (CCPA 1970). In this regard, the intent of Barkat as a secondary teaching is not to combine its structural features into Harris, but rather to use the teaching of Barkat's technique to detect the accessory to insert into the radiophone based on the varying of electrical resistance of each accessory. Since both references teaches the mobile phone to detect with plurality of accessory to be inserted thereto. Therefore, the combination of Harris and Barkat are proper.

In response to applicant's remark on page 9, Applicant argues that Parker does not teach illuminate a keypad as recited in claims 5, 20, and 29.

In response to applicant's arguments as stated above, the Examiner respectfully disagrees with the Applicant's argument. Parker teaches a mechanical means for providing an indication to indicate which keypad to be inserted into the bar code reader (see col.4, ln.55-60). Therefore, the teaching of Parker still read on.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-2, 4, 7-11, 13, 15-16, 19, 21-28, and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, “Harris”) in view of Barkat (U.S. Patent No.: 6,038,457).

Regarding claims 1, 9, 21, and 23, Harris teaches a handset comprising (see figure 1, communication device 100):

a housing (see figure 1, first housing 110) having a display (see figure 1, display 102) and first keypad (see figure 3, first key pad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, ln.45-58);

circuitry within the housing configured to detect a type of keypad attached to the housing (see col.8, ln.50-55, controller 620 detect the type of keypad), the circuitry adapted to interface with the display and the first keypad (see figure 3, figure 6, display 102, first keypad 302); and

a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, ln.19-43); wherein the second keypad is adapted to replace the first keypad on the housing when the first keypad is

removed from the housing and the circuitry detects a first keypad (see figure 3, figure 6, figure 9, col.2, ln.45-58, col.8, ln19-43).

It should be noticed that Harris fails to teach detecting with different electrical resistance. However, Barkat teaches such features (see figure 1, figure 2, resistor 202, resistor 302, col.1, ln.60-67, col.2, ln.65-67, col.3, ln.1-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Barkat into view of Harris in order to detect a particular device going to connect to the mobile phone.

Regarding claim 2, Harris further teaches the handset wherein the circuitry is adapted to detect whether the first keypad or the second keypad is interfacing with the circuitry (see figure 6, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.8, ln.50-56).

Regarding claim 4, Harris further teaches the first keypad has a different number of keys than said second keypad (see figure 11-12, telephone keypad 1100, game keypad 1200).

Regarding claim 7, Harris further teaches the handset wherein the first keypad has a larger number of keys than the second keypad and wherein the second keypad has larger keys than the first keypad (see figure 11, 13, keypad 1110, keys 1103, keypad 1300, key 1304-1308).

Regarding claim 8, Harris further teaches the first keypad is adapted to be used with a cordless telephone application and wherein the second keypad is adapted to be

used with a game application (see figure 11-12, telephone keypad 1100, game keypad 1200).

Regarding claim 10, Harris further teaches a handset wherein the first keypad at least partially conceals the telephone keypad (see figure 11, telephone keypad 1100).

Regarding claim 11, Harris further teaches the handset wherein the circuitry is adapted to detect whether the first keypad or the second keypad is interfacing with the circuitry (see figure 6, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.8, ln.50-56).

Regarding claim 13, Harris further teaches the handset wherein the first keypad has a larger number of keys than the second keypad and wherein the second keypad has larger keys than the first keypad (see figure 11, 13, keypad 1110, keys 1103, keypad 1300, key 1304-1308).

Regarding claim 15, Harris teaches a method of exchanging a keypad of a cordless handset the method comprising (see figure 3, communication device 100):

providing a housing (see figure 1, first housing 110) having circuitry configured to detect a type of keypad attached to the housing (see col.8, ln.50-55, controller 620 detect the type of keypad), a display (see figure 1, display 102) and first keypad (see figure 3, first key pad 302), the first keypad being removable coupled to the housing (see figure 3, first keypad 302, col.2, ln.45-58);

providing a second keypad (see figures 11-12, second keypad 1200), the second keypad exchangeable with the first keypad (see figure 9, col.8, ln.19-43);

removing the first keypad from the housing (see figure 3, keypad 302, col.2, ln.48-52);

replacing the first keypad with the second keypad on the housing and (see figure 3, figure 6, figure 9, col.2, ln.45-58, col.8, ln19-43).

electronically sensing (read on detecting) the presence of the second keypad, wherein the sensing the presence of the second keypad comprises sensing of the second keypad (see figure 3, figure 6, figure 9, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.2, ln.45-58, col.8, ln19-43).

It should be noticed that Harris fails to teach detecting with different electrical resistance. However, Barkat teaches such features (see figure 1, figure 2, resistor 202, resistor 302, col.1, ln.60-67, col.2, ln.65-67, col.3, ln.1-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Barkat into view of Harris in order to detect a particular device going to connect to the mobile phone.

Regarding claim 16, Harris teaches the method of exchanging a keypad further comprising providing circuitry within the housing, the circuitry being adapted to interface with the display and the first keypad (see figure 6, figure 9, display 922, keypad 926, col.5, ln.60-67).

Regarding claim 19, White teaches the method of exchanging a keypad further comprising changing a user application of the cordless handset (see figure 11-14, each keypad has predetermined interface for supporting different function such as telephone, game or fax, col.8, ln.19-56).

Regarding claim 22, Harris further teaches the device wherein the user interface has a predetermined interface characteristic corresponding to the predetermined characteristic of the device (see figure 11-14, each keypad has predetermined interface for supporting different function, col.8, ln.19-56).

Regarding claim 24, Harris further teaches the device wherein when the interchangeable user interface is interchanged with another of the number of different interchangeable user interfaces the device is changed from a first application to a second application (see figure 11-14, each keypad has predetermined interface for supporting different function such as telephone, game or fax, col.8, ln.19-56).

Regarding claim 25, Harris teaches an apparatus comprising a first keypad (see figure 3, keypad 302) for use with a handheld electronic device (see figure 3, communication device 100) having electrical resistance measuring circuitry (read on electrical contact 315)(see figure 3, electrical contact 315, col.5, ln.10-20), the keypad comprising a indicative of the type of the keypad (see figure 6, electrical connector 522, controller 620, col.5, ln.10-20, col.6, ln.60-67, col.8, ln.50-56), the keypad being adapted to removably engage the device (see figure 3, removable user interface 300, keypad 302, col.2, ln.49-55).

It should be noticed that Harris fails to teach detecting with different electrical resistance. However, Barkat teaches such features (see figure 1, figure 2, resistor 202, resistor 302, col.1, ln.60-67, col.2, ln.65-67, col.3, ln.1-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Barkat into view of Harris in order to detect a particular device going to connect to the mobile phone.

Regarding claim 26, Harris further teaches a second keypad for use with said handheld electronic device, said second keypad comprising a second electrical resistance indicative of the type of said second keypad, said second electrical resistance being different from said first electrical resistance, said second keypad being adapted to removably engage said device (see figure 3, figures 11-14, first keypad for 1100 for phone interface, second keypad 1200 for game, the keypads 1100 and 1200 are having a different electrical resistance for the controller 620 detects the different type of keypad such as telephone or game when that is inserted to the communication device 100, col.5, ln.10-20, col.6, ln.60-67, col.8, ln.50-56).

Regarding claim 27, Harris further teaches a display (see figure 1, display 102).

Regarding claim 28, Harris further teaches the first keypad has a different number of keys than said second keypad (see figure 11-12, telephone keypad 1100, game keypad 1200).

Regarding claim 30, Harris further teaches a transparent material (see col.7, ln.55-67).

Regarding claim 31, Harris further teaches the handset (see figure 1).

Regarding claim 32, Harris further teaches the first keypad is adapted to be used with a cordless telephone application and wherein the second keypad is adapted

to be used with a game application (see figure 11-12, telephone keypad 1100, game keypad 1200).

5. Claims 5-6, 20, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, "Harris") in view of Barkat (U.S. Patent No.: 6,038,457) as applied to claims 1, 15, and 25 above, and further in view of Parker et al. (U.S. Patent No.: 5,576,981, hereinafter, "Parker").

Regarding claims 5, 20, and 29, Harris and Barkat, in combination, fails to teach the handset further comprising an illumination source, wherein the illumination source illuminates the first or second keypad when the first or second keypad is coupled to the housing. However, Parker teaches such features (see figure 1, col.4, ln.55-60).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Parker into view of Harris in order to provide an indication to the user of current the keypad that is being use.

Regarding claim 6, Harris further teaches a transparent material (see col.7, ln.55-67).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harris et al. (U.S. Patent No.: 6,118,986, hereinafter, "Harris") in view of Barkat (U.S. Patent No.: 6,038,457) as applied to claims 1, 15, and 25 above, and further in view of White et al. (U.S. Patent No.: 6,532,152, hereinafter, "White").

Regarding claim 14, Harris and Barkat, in combination, fails to teach a handset comprises a camera interface. However, White teaches such features (see col.9, ln.43-45, read on video capture).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of White into view of Harris in order to provide the video function for the communication device.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit 2618
August 1, 2006
Examiner



Tuan Pham

Supervisory Patent Examiner
Technology Center 2600



Matthew Anderson